

UTILITY PATENT APPLICATION TRANSMITTAL

BOX PATENT APPLICATION

Washington, D.C. 20231

Commissioner for Patents

Attorney Docket No.: 010141

Date: April 4, 2001

Express Mail Label No.: EK 807 712 991 US

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): ANDREW SENDONARIS, RAJESH SUNDARESANFor: METHOD AND APPARATUS FOR ESTIMATING CHANNEL CHARACTERISTICS USING
PILOT AND NON-PILOT DATA

Enclosed are:

1. ☒ Patent application (29) total pages.
2. ☒ Drawings: ☒ Formal (8) sheet(s) or ☐ Informal () sheet(s).
3. ☒ Declaration/Power of Attorney: ☐ Signed ☒ Unsigned
4. ☐ An Assignment () pages and Recordation Form Cover Sheet.
5. ☐ A Preliminary Amendment () pages.
6. ☐ Information Disclosure Statement (IDS):
 - a. ☐ PTO-1449
 - b. ☐ Copies of IDS Citations (number of citations:)
7. ☒ Other: Certificate of Express Mail; return receipt postcard

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	25 - 20	5	X \$18 =	\$90
Independent**	4-3	1	X \$80 =	\$80
Multiple Dependent Claim(s): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			\$270	\$0
APPLICATION FILING FEE			\$710	\$710
			TOTAL FEE	\$880

*If the number in column a is less than 20, enter 0 in column b.
**If the number in column b is less than 3, enter 0 in column b.

8. ☐ Fee check in the amount of \$0.00 is enclosed to pay for any claim and/or extension fees.
9. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$880.
The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.

The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: April 4, 2001Signature: Charles D. Brown

Charles D. Brown

Reg. No. 28,285

QUALCOMM Incorporated
Attn: Patent Department
5775 Morehouse Drive
San Diego, California 92121-1714
Telephone: (858) 651-1179
Facsimile: (858) 658-2502